1st & Final

Job Code: 005-20-000104
Est Cost: 20.00 Lakhs

M. A. R. 57 (Rule 116)
Measurement Book

No. B

497832

No. .....

of Work ..Improvements from Drains and to Asphalting to Roads in

of Contractor of nature of Agency Vinayakanagara Dwarakanagara Surrounding

f commencement of work area in Ward No.05 Jalakar Byatarayanapura Sub Divi

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Work Order No:	EE/BTP/BBMP/E-				PAF/01/2020-21 Dt 515/20	
	BBMP/EE/BTP/WO/165/2024				Dt 21/24	
Contractor:	Sri, Channakeshawa Enterprises prop, Kiran Gowda. D.					
Earth Work Excavation by manual means in Ordinary soil including an avg. Head throw upto 2m & avg. Lift upto 0.5m excavated surface levelled & sides neatly dressed & disposed earth to be levelled & sides neatly dress						

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MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B 497833

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	The disposed earth to be levelled neatly after breaking of clods etc complete qty is from premeasurement A/c on B pg - 497880 — 82					= 317.10 m³	
	@ Rate 116.44/m³					= 36923=0	
(2)	providing & laying in position P.C.C in M20 1:4:8 with 40 mm & down size graded granite metal coarse aggregates & fine aggregates mix with concrete laid in layers not exceeding 15 cm thick work						
	Compacted in foundation including cost & all materials labour form curing etc complete qty is as per premeasurement A/c on B pg - 497853					= 5.80 m³	
	@ Rate 4569.86					= 26779=0	
(3)	providing & constructing granite/basalt stone masonry in foundation with C.M stone hammered dressed in course not less than 30 cm high bond stones at 2m apart in each course including cost of materials, labour, curing etc complete.						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty is as per premeasurement pg-497883						
	@ Rate 4118.64/m^3					= 11.16 m^3	
						= 45.942 = m	
(4)	providing & constructing granite (small-ISM in foundation with C.P. stone hammered dressed in courses not less than 15cm Light bond stones at 2m apart in each course including cost of materials labour lowing etc complete						
	Qty is as per premeasurement of 11.2m³ pg-497884					= 5.37 m^3	
	@ Rate 4991.12/m^3					= 41106 = ∞	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 497834

Serial No. .....
Name of Work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(5)	providing & removing centering shuttering straiting propping etc & removal of temporary work for sides & soffits of beams beam haunching cantilever girder brackets & lintols not exceeding 1m in depth including cost of all materials labour etc complete.						
	Qty is as per premeasurement of 11.2m³ pg 497884					= 21.99 m^2	
	@ Late 26.56/m^2					= 575 = ∞	
(6)	providing & laying P.C.C of m:n 1:3:6 with 40mm & down size graded granite metal (broke & hire						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	aggregates in foundation mechanically mixed plates in foundation & Compacted by vibration including curing for 14 days including cost of all materials labour Hom curing form work etc complete qty is as per pre-measurement of ILR MB pg - 49788					= 5.30 m³	
	@ Rate 4755.27/m³					= 25203 = 00	
(4)	providing flush pointing 20 mm deep to Square rubble course or Concourses Stone masonry with C.M after raking						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 497835

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Joints to depth of 20 mm nicely laying including cost of materials labours curing etc complete						
	For Culverts						
	8th main Road	2	7.60	—	0.50	= 7.60	
	7th main Road	2	6.00	—	0.50	= 6.00	
		2	5.00	—	0.50	= 5.00	
						18.60 m²	
	@ Rate 185.90/m²					= 3515 = 00	
(5)	providing & laying in position reinforced C.C of Design mix M20 Using 20 mm & down size graded						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	granite metal (course & fine aggregates) m/c mixed concrete laid in layers not exceeding 15 C.ms Well Vibrated for all works in foundation for footing City etc including cost of all materials labour tools & machinery Curing etc Complete						
	For culverts						
	8th main Rd	1	7.60	1.80	0.23	= 3.15	
	7th main Rd C/C	1	6.00	1.80	0.23	= 2.48	
		1	5.00	1.80	0.23	= 2.07	
						7.70 m³	
	(B) Rate 5068.77/m³					= 39030 = 00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

197836

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(9)	providing T.M.T Steel reinforcement for R.C.C including straightening Cutting bending hooking wire & tying to the adjoining members wherever necessary etc complete Qty is as per measurement in the MB pg 49 7886						
	(B) Rate 63564.25/T_m					= 0.46 T_m	
						= 29240 = 00	
(10)	providing laying spreading & compacting crushed stone aggregates of granite/basalt rock mix macadam including premixing the material the material with						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Water at OMC in mechanical mix plant - carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base course on well prepared surface & compacting with vibratory roller to achieve the desired density etc complete.						
	Qty is as per measurement of 11th MB pg. 49/88					= 1199.28 m²	
	@ Rate 1691.08/m²					= 544322.00	
(11)	Providing & applying primer coat from 7.5 to 9.8 kg to 12.2 kg/10 m² for surface of bond						

M. A. R. 57 (Rule 116)
Measurement Book

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497837

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	& medium porosity respectively over prepared surface of granular base with cut-back M.C 70 or any other bituminous mixes with dieso at 10 kg/10 m² with rates in bitumen boiler fitted with spray set - including cost & all materials labour & OM of machinery etc complete						
	Vinayakanagara	1	30.00	4.80+5.20 / 2		150.00	
	1st main, 7th CB	1	26.00	5.20+4.80 / 2		131.30	
	1st Sub Cross Rd	1	30.00	5.00+4.80 / 2		147.00	
	2nd Sub Cross Rd	1	19.30	4.80+4.30 / 2		93.50	521.88
	Road Gap						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd A Sub Cross Bd	1	30.00	5.60+4.80/2		= 156.00	
		1	24.40	4.80+5.20/2		= 122.00	
		1	30.00	4.45+4.20/2		= 129.75	
		1	12.00	4.20+4.20/2		= 50.40	
24/6/24		1	5.90	4.20+3.20/2		= 21.83	
	3rd Sub Cross Bd	1	30.00	5.40+5.20/2		= 159.00	
		1	30.00	5.20+5.10/2		= 153.00	
		1	30.00	5.10+4.45/2		= 141.00	932.98

M. A. R. 57 (Rule 116)
Measurement Book

No. B 497838

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
24/6/24		1	30.00	4.40+4.70/2		= 133.50	
		1	4.50	4.50+4.40/2		= 20.25	
		1	30.00	5.40+5.20/2		= 159.00	
		1	30.00	5.20+5.50/2		= 160.50	
		1	12.00	5.50+6.00/2		= 69.00	562.25
				Ltd: 1950.00		1997.11 sq.m	
						59377.50 = 593778 = 0²	
							60812 = 0²

cft c
24/6/24
30.45/24²

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
12	providing & laying Semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 5% of their & filler transporting the hot mix to work site, laying with of hydrostatic paver finisher with screed control to the required grade, level & alignment - rolling						

M. A. R. 57 (Rule 116)
Measurement Book

No. 7839

rial No. .....

me of Work ..... From..... To.....

me of Contractor of nature of Agency .....

te of commencement of work .....

te	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	with smooth wheeled vibratory + tandem roller etc complete						
	1st main 7th cross	1	30.00	$\frac{4.80+5.20}{2}$	0.03	= 4.50	
	No. 1st Sub cross	1	26.00	$\frac{5.20+4.90}{2}$	0.03	= 3.94	
	2nd Sub cross Rd	1	30.00	$\frac{5.0+4.80}{2}$	0.03	= 4.41	
		1	19.70	$\frac{4.80+4.70}{2}$	0.03	= 2.84	
		1	30.00	$\frac{5.60+4.80}{2}$	0.03	= 4.68	
		1	24.40	$\frac{4.80+5.20}{2}$	0.03	= 3.66	

24/6/2021

24/6/21

24

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd A Sub Cook Hs	1	30.00	$\frac{4.45+4.20}{2}$		× 0.03 = 3.89	
		1	12.00	$\frac{4.20+4.20}{2}$		× 0.03 = 1.51	
		1	5.90	$\frac{4.20+3.20}{2}$		× 0.03 = 0.61	
	3rd Sub Cooks Hs	1	30.00	$\frac{5.40+3.20}{2}$		× 0.03 = 4.77	
		1	30.00	$\frac{5.20+5.0}{2}$		× 0.03 = 4.59	
		1	30.00	$\frac{5.00+4.40}{2}$		× 0.03 = 4.23	
		1	30.00	$\frac{4.40+4.50}{2}$		× 0.03 = 4.01	
		1	4.50	$\frac{4.50+4.50}{2}$		× 0.03 = 0.61	
		1	30.0	$\frac{5.40+5.20}{2}$		× 0.03 = 4.77	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 197840

rial No. .....

me of Work ..... From..... To.....

me of Contractor of nature of Agency .....

te of commencement of work .....

ate	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
		1	30.00	$\frac{5.20+5.60}{2}$		× 0.03 = 4.82	6.89
		1	12.00	$\frac{5.20+6.0}{2}$		× 0.03 = 2.07	
						59.91 m³	
						Upto to 58.50	
						325510=00	
						317849 = 317849=00	
	3) loading & unloading of Stone Boulder/Stone aggregates/Sand/Loader/Excavator. placing tipper al- loading pt loading will from end Loader dumpin turning for return trip excluding time for						

Rate 5433.32/m³

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MEASUREMENT BOOK

M. A. R. 57
Measuren...

No. B 197811

...rial No. .....
...me of Work ..... From..... To.....
...me of Contractor of nature of Agency .....
...te of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	haulage & returns first CI Complete.						
	For Culvert						
	8th main	1	7.60	2.10	1.20	= 19.15	
	7th main	1	6.50	2.10	1.20	= 16.38	
		1	5.10	2.10	1.20	= 12.85	
	Desilt						
	Unmetalled Portion	2	30.00	0.45	0.25	= 6.75	
	1st main, 7th Cross	2	26.00	0.45	0.25	= ~~7.02~~ 5.85	
	Road, 1st Sub Cross						
	2d & Sub Cross Rd	2	30.00	0.45	0.30	= 8.10	
		~~2~~	~~26.00~~	~~0.45~~	~~0.30~~	=	
		2	17.90	0.45	0.30	= 4.83	
	3d Cross Rd	2	30.00	0.45	0.25	= 6.75	
		2	30.00	0.45	0.30	= 8.10	

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
		2	30.00	0.45	0.20	= 5.40	
		2	30.00	0.45	0.25	= 6.75	
		2	4.50	0.45	0.35	= 1.42	
	Connecting Roads	2	30.00	0.45	0.20	= 5.40	
		2	30.00	0.45	0.30	= 8.10	
		2	12.00	0.45	0.25	= 2.70	
	For Roads						
	1st main 7th Cross Rd	1	30.00	4.80+5.20 / 2		× 0.10 = 15.0	
	1st Sub Cross Rd	1	26.00	5.20+4.90 / 2		× 0.10 = 13.13	

MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B 497842

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd Cy Lt	1	30.00	$\frac{5.0+4.80}{2}$		×0.10 = 14.70	
		1	14.70	$\frac{4.80+4.70}{2}$		×0.10 = 9.71	
	C/F	1	30.00	$\frac{5.60+4.80}{2}$		×0.10 = 15.60	
		1	24.40	$\frac{4.80+5.20}{2}$		×0.10 = 12.20	
	2nd + Sub Cross Lt	1	30.00	$\frac{4.40+4.20}{2}$		×0.10 = 12.48	
		1	12.00	$\frac{4.20+4.20}{2}$		×0.10 = 5.04	
	3rd Sub Cross Lt	1	5.40	$\frac{4.20+3.20}{2}$		×0.10 = 2.18	
		1	30.00	$\frac{5.40+5.20}{2}$		×0.10 = 15.90	
		1	30.00	$\frac{5.20+5.40}{2}$		×0.10 = 15.30	

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
3/7/24	Connecting Road	1	30.00	$\frac{5.00+4.40}{2}$		×0.10 = 14.10	
		1	30.00	$\frac{4.40+4.50}{2}$		×0.10 = 13.35	
		1	4.50	$\frac{4.50+4.50}{2}$		×0.10 = 2.03	C/F
		1	30.00	$\frac{5.40+5.20}{2}$		×0.10 = 15.90	
		1	30.00	$\frac{5.20+5.50}{2}$		×0.10 = 16.05	
		1	12.00	$\frac{5.50+6.00}{2}$		×0.10 = 6.90	
Date		51.05				318.01 m³ = 76265 = 00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Total	1491302.00			Total	1491302=00
		GST	178956.24				178956=00
			Add 12% GST			=	178956=00
		Total	1670258.24				1800053=00
		Round off:	16,70,000/-				1670258=00
							1650491=00
	(1) It is Certified that the above work is done satisfactorily.						
	(2) The above Bill Amount has not been any previous Bill.						

Assistant Executive Engineer

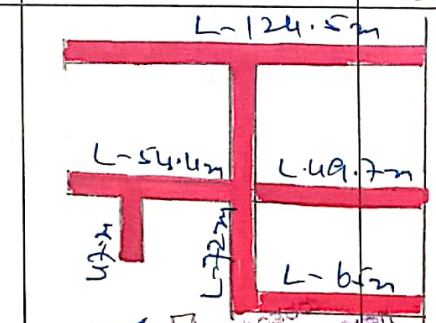
M. A. R. 57 (Rule 116)
Measurement Book

No. B 497813

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
				Asphalt Road		
				Vinayaka nagar 2nd main Road		

Assistant Executive Engineer
Yelahanka Sub Division
B.B.M.P Bangalore-560024

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1st & Final

MEAS NT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents
1	2	3	4	5	6	7
	P 3726					
	Zonal Public Works					
	ಪ್ರಧಾನ ಲೆಕ್ಕಾಧಿಕಾರಿ ರವರು POW Works - Escrow Account ರಿಂದ		TTB:	1670,000		
	ಚೆಕ್ ಮೂಲಕ ರೂ. 16,70,000/- ಗಳನ್ನು ಪಾವತಿ ಮಾಡಿದೆ		It	16700		
	ಇದರಲ್ಲಿ ರೂ. 1,36,000/- ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ		CGST	14911		
	ಮಾಡಿಕೊಂಡು ರೂ. 15,34,000/- ಗಳನ್ನು		SGST	14911		
	ಸ್ವೀಕರಿಸಿರುತ್ತೇನೆ		Cess	16700		
			CBIC	1670		
			LR	70018		
			Fine	1090		
			Deductions	1,36,000		
			Cheque	1534,000		

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Full description,

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